



The Fly-By

A Quarterly Publication of the
Southwest Region
April, 2016



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The Fly-By is published quarterly on the first month of each quarter. Deadline for submissions are:

1Q – 20 December

2Q – 20 March

3Q – 20 June

4Q – 20 September

Text may be submitted in the body of an e-mail (preferred) or as a document attached to an e-mail (a text file or, if generated in a word processor, saved in .RTF format).

Images must be in JPG format, un-retouched, un-cropped, and at least 1200 by 900 pixels.

Credits: In all cases, please give full grade, name and unit of assignment of

1. The article's author,
2. Photographer, and
3. Any person mentioned in the article or photos.

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Send submissions to the Editor at:

awoodgate@austin.rr.com

Message size limit: 20 MB

SWR Commander's Corner

Welcome to the latest issue of Southwest Region's newsletter, The Fly-By. When I first joined CAP I wondered whether or not CAP and I would be a good fit. CAP is, after all, "different." But, after a period of time I fell in love with our people – amazing people who are doing great things in service to the community, state, and nation. I would like to take the opportunity in this issue to brag on some of the people. They are helping us to achieve our vision: "Southwest Region – Leading the way to mission success!"

Cadet Col. Klara Olcott and Cadet Lt. Col. Robbie Jeffries are superb examples of what we look for in our future leaders. Olcott is our past chair of the Southwest Region Cadet Advisory Council (SWR CAC) and current chair of the National Cadet Advisory Council (NCAC). Jeffries is chair of our SWR CAC and our representative to the NCAC. These two cadets have demonstrated superb leadership at the local, wing, region, and national level. The NCAC and SWR CAC have both fielded initiatives that will enhance the vibrancy of the cadet corps and CAP as a whole.

In late February Lt. Col. Shane Lipson and his team conducted a flight competition in Texas Wing. The event was superbly organized. What is more important is that the event fostered enthusiasm among the participating members and helped to enhance their level of effectiveness. I consider this to be a best practice that should be emulated across the region.

Also in late February we had our first region-wide exercise under the leadership of then-SWR Director of Emergency Services Col. Brooks Cima. This exercise was our first "baby step" in pursuing our region initiative of conducting at least one multi-wing, multi-region exercise per year. Disasters don't respect geographic nor organizational boundaries, so it is important for us to exercise on a large scale. My thanks to Col. Cima and those from each of our wings who helped us to move forward in this important area.

Just recently, a team led by SWR Vice Commander (West) Col. Brian Ready tested and fielded a new communications capability called CAPLink Remote Radio System. The team used a CAP server for security, Raspberry Pi interface box, stock EF Johnson radio, the Internet and a commercially

available client called Mumble. The client is available for multiple operating systems including Mac, Windows and Linux. The team continues its work on the system, but CAPLink promises to be a significant advancement in our ability to communicate securely over great distances. This is a superb illustration of our vision: "Southwest Region – Leading the way to mission success!"

These are but a small representation of the many stories out there. Stories where you are helping your unit, wing, region, and CAP to be highly successful in our three mission areas. You are the reason I stayed in CAP. Thanks for all you do for CAP!

Thanks for doing your part for fulfilling our mission: *Southwest Region – leading the way to mission success!*

Col. Mark Smith, CAP

Southwest Region Commander 

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Safety is Priority One

Please read the latest issue of The Safety Beacon for timely, seasonal advice at <http://members.gocivilairpatrol.com/safety/>

Have you taken the **Operational Risk Management** Basic, Intermediate and Advanced online courses? Please visit: http://www.capmembers.com/safety/safety_education/

- Safety must be on every CAP member's mind, at all times.
- Before engaging in any CAP activity, a safety briefing must be conducted.
- Don't miss the Safety Specialty Track training posted at <http://www.capmembers.com/safety/safety-newsletters-2248/>
- **Safety is our Number One Priority.**

How to Submit News Items for this Newsletter

▪ **Which Articles Are Best?**

Ideally, articles should deal with a wing-wide event, preferably conducted in conjunction or coordinated with another wing (or better yet across regions).


Individual articles dealing with a subject that is of interest to a broad audience qualify as well.

Articles bylined by cadets, especially when the subject is of interest to a broad audience, are also welcome.

▪ **Do I Submit Photos?**

Articles with no photos may not be selected for publication. Do not embed images in a Word document. Instead, send in the original, un-retouched, full-size digital photos as attachments.

▪ **If You Have Article Ideas or Suggestions**

If you have an article in mind but are not sure whether it would be acceptable, you need some guidance in writing it, or you would like to comment on the material published here, please feel free to contact the editor: awoodgate@austin.rr.com. 



Top: Aircrews begin preparing their aircraft for the start of the first annual Texas Wing Flight Competition in San Marcos, Texas. (All photos: Maj. Matthew Congrove)

Texas Wing Flight Competition Exceeds Expectations

by Maj. Matthew Congrove, CAP, Texas Wing

SAN MARCOS, Texas – On Saturday, Feb. 25, 2016 at the San Marcos Regional Airport, 15 Civil Air Patrol officers took to the skies over hill country for a chance to win the first annual Texas Wing Flight Competition. The three-person aircrew from Texas Group V (San Antonio region), who held home field advantage, ended up with the trophy after a rigorous day of flying, inspections and tests.

“Excellent flight planning, quickly accomplished in this high tempo and realistic environment, was key to our success,” said Lt. Col. Roger Corbin, the winning team’s mission pilot. Lt. Col. Mike Duc served as the mission observer and Maj. Jan Wagner rounded out the crew as the mission scanner. “Crisp inflight crew coordination won the day,” added Corbin.

Texas Wing Group III (Dallas region) came in second place for the competition, and Group IV (Houston region) finished in a very close third.

The big winner of the day, however, was the Civil Air Patrol as a whole.

“When we set this up, we envisioned a good competition with teams vying for points and winning a trophy,” said Lt. Col. Shane Lipson, Texas Wing standardization and evaluation officer, who was in charge of the contest. “Early on it became clear that this was also turning into an amazing training event.”



Left: The aircrews and mission base staff assemble for the morning briefing provided by Lt. Col. Shane Lipson from El Paso Composite Squadron and Texas Wing standardization and evaluation officer.

Below: (L-R) Group V team members Lt. Col. Mike Duc and Lt. Col. Roger Corbin from David Lee "Tex" Hill Composite Squadron and Maj. Jan Wagner from Bexar Senior Squadron hold their first place trophy.

Throughout the competition, situations arose that could potentially

occur during real-world search and rescue or disaster recovery missions. "One plane had the search equipment break down during flight, so they had to use other techniques to find the emergency transmitter," Lipson said.

The events included a pre-flight inspection on an aircraft that had been purposefully altered, a quiz on the type of plane most often flown by the Civil Air Patrol, a mission to photograph a nearby dam, a search for a simulated emergency beacon, and a test which required the crews to calculate how much fuel and time would be consumed by their flight.

Operations flowed smoothly at the mission base, held in the hangar of the CENTEX Commemorative Air Force. "We're thankful for our longtime friends here at the CAF for the assistance, as well as to Berry Aviation for keeping our planes flying," said Capt. Bob Klett, a member of the local David Lee "Tex" Hill Composite Squadron and the logistics officer for the competition. "Couldn't have done it without them."

Many of the staffers at mission base were hopeful that other wings and the Southwest Region would use this event as an impetus to create their own. Lt. Col. Lipson's counterpart at Southwest Region, Maj. Stephen Hundley, was in attendance to get a glimpse of the operation.

Lt. Col. Lipson said that later in the evening he had a call from Maj. Hundley, telling him that Hundley had already talked to his hierarchy at region to discuss what Texas Wing put together, and was using this event as a model for what to do in other wings in the region. 🇺🇸





Top: The CyberPatriot 2016 team (L-R) Cadet Senior Master Sgt. John LeGalley, Cadet Chief Master Sgt. Kyle Stafford, 1st Lt. Cael Chappell, Cadet Senior Master Sgts. Jacob Hensley and Mark Chappell, and Cadet 2nd Lt. Jeff Keithley. (All photos: Capt. Teresa M. LeGalley, CAP)

Spirit Squadron Places First in CyberPatriot Competition

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

ALBUQUERQUE, N.M. – Turning in its best performance ever, cadets from Albuquerque Heights “Spirit” Composite Squadron placed first in New Mexico for Civil Air Patrol, at the seventh annual National Youth Cyber Defense Competition, also known as *CyberPatriot*.

In addition to placing first in the state, the squadron also placed third in New Mexico for the All Service category; number 19 in the United States for CAP, out of 448 teams; and number 73 in the United States for the All Service category, out of 1,281 teams—placing the squadron in the top 5% in the nation for CAP and All Service divisions.

Established by the Air Force Association, CyberPatriot was designed to excite, educate and motivate students toward careers in cyber security and other science, technology, engineering and mathematics (STEM) disciplines critical to our nation’s future.

The Cyber Defense Competition challenges students from the United States, Canada and abroad to find and resolve cybersecurity vulnerabilities in simulated computer network environments. Top teams from the preliminary online rounds win an all-expenses-paid trip to

Washington for the National Finals Competition, where the students compete for national recognition and scholarships.

The CyberPatriot field is divided into three categories: the Open Division for public, private, and home school teams; the All Service Division for JROTC, Civil Air Patrol, and Naval Sea Cadets teams; and the Middle School Division. Based on the results of the two preliminary rounds, CyberPatriot VII high school teams were categorized within their divisions as Platinum, Gold, or Silver Tier teams, with Platinum Tier representing the highest-scoring teams.

In all, 3,379 teams registered to compete, including 36 teams from New Mexico.

Led by Head Coach 1st Lt. Cael Chappell, and Assistant Coaches Capt. Teresa M. LeGalley and parent Pauline Keithley, the team of cadets from Spirit Squadron excelled in the state round that was held during Jan. 29-31, 2016, demonstrating the teamwork, critical thinking skills and technical knowledge that are key to a successful career in cybersecurity. The team's performance earned it the state's third place award and a spot in the Platinum Tier Category Round which was held during Feb. 19-21, 2016.

"These Civil Air Patrol cadets have been working hard and learning a lot since practice started in July of last year," said Chappell. "Everyone from the Albuquerque Heights Composite Squadron is so proud of the way this team came together and worked so well to complete the highest levels in the CyberPatriot Program." 🇺🇸

Below: The team defends against a cyber-attack.





Top: The Civil Air Patrol's Cessna 182T was the centerpiece of the static display at the Davis-Monthan AFB Open House and Air Show. (All photos: 2nd Lt. Michael Ossipov.)

Below left: Colorado Springs Squadron 104's Lt. Col. Milton Moores demonstrates the avionics to a potential future pilot.

Below right: Lt. Cols. Fritz Seifritz and David Gregor of the 388 Composite Squadron, Glendale, man the Aerospace Education table at the Thunder and Lightning Over Arizona, 2016.

Arizona Wing Represents CAP at the Biennial Open House and Air Show at Davis-Monthan AFB, March 2016

by 2nd Lt. Michael H. Ossipov, CAP, and Capt. Steven R. Hulland, CAP, Arizona Wing

TUCSON, Ariz. – The weekend of March 12-13, 2016 featured the return of Thunder &



Lightning Over Arizona, the biennial event hosted at Davis-Monthan Air Force Base. As always, there were numerous static displays, aerobatic demonstrations and the storied Thunderbirds. In addition, CAP was well represented. Maj. Barbara Harper, accompanied by Lt. Col. Tony McFarland who acted as Mission Observer, ferried the Arizona Wing's show centerpiece, the newly washed and polished Cessna 182T N882CP, from the William Rogers Memorial Squadron 048 based at Tucson International Airport to Davis-Monthan AFB. This Civil Air Patrol plane was front and center of the static display.

All Tucson CAP squadrons

were present, Neotoma Cadet Squadron 109 from Marana with Lt. Cols. McCord and Markiewicz were present in their Search and Rescue uniforms on Saturday, and some of their cadets participated in the display on both days. Both Commander Lt. Col. Mike Meiers and Deputy Commander 2nd Lt. Wendy Iskiyan from the East Tucson Cadet Squadron 229, were present on Saturday. Lt. Iskiyan was present on both days. Representing the Tucson Composite Squadron 105 were Lt. Cols. A. C. Sperling and Barbara Mathews, the unit's commander and deputy



The Fly-By, Southwest Region, April, 2016

commander respectively. Also, members from Composite Squadron 338 from Glendale arrived to help.



Above: The new shadowed by the old: a Lockheed Martin F-22 Raptor is closely followed by a WW II era North American P51 Mustang.

Below: The crowds lined up all day Saturday and Sunday for a chance to sit at the Cessna 182's controls and examine the Garmin 1000 in operation.

Once the gates opened at 9 a.m. on March 12, the CAP airplane on static display drew a crowd, keeping squadron members busy as they showed the airplane and its advanced avionics to children of all ages. A small generator powered the aircraft power unit so that the Garmin G1000 glass cockpit could be up and running, and this attracted much attention.

All who wanted a chance to sit in the pilot's seat and get a full-on demonstration





of the primary flight display (PFD) and the multifunction display (MFD) got their chance. This gave members of Squadron 104 an opportunity to engage with the children and their parents and explain CAP's missions. In doing so, the CAP members were fulfilling one of CAP's three missions: Aerospace Education.

Above: (L-R) Cadet 2nd Lt. Cameron McCarthy of Squadron 229 and Cadet Master Sgt. Conner Smith man the recruiting table set up at the air show.

Below: The Civil Air Patrol's greatest attraction was the Cessna 182 and its Garmin 1000 glass cockpit.

Glendale's 388 Composite Squadron put on a pictorial display of CAP's history and mission, and Marana's Cadet Squadron 109 manned a Search and Rescue table with information and CAP brochures. From the point of view of community outreach and education, CAP's presence at Davis-Monthan AFB's Open House 2016 was a success, as measured by the smiling faces, animated conversations, and long lines forming – even after the Thunderbirds had completed their performance.

The crowd did not abate until all units secured on Sunday at 5 p.m. Lt. Col. McFarland remarked that when he put the aircraft to bed Sunday evening, he cleaned hundreds of little finger marks off the PFD and MFD. On Monday morning, Maj Harper and Lt Col Tony McFarland flew N882CP back home.

"You never know who is going to show up at the squadron just to talk or ultimately join as I did 12 years ago after seeing the squadron aircraft at the DM Air Show," said Lt. Col. McFarland.

Arizona Squadron 104 Commander Captain Steve Hulland perhaps best summarized the success of CAP's participation by tallying more than 50 solid recruiting leads generated through the cooperative effort of CAP senior members and cadets who attended the air show. All prospective CAP senior members and cadets have already received a personal email inviting them to attend one or more upcoming Arizona Wing's Squadron meetings. 🇺🇸





Above: Panoramic view of the extensive flooding to both margins of the Sabine River in Central Texas. (All photos: Texas Wing aircrews)

Texas Wing Aircrews Fly in Support of Major Texas River Flooding

by Maj. Stephen Robertson, CAP, Southwest Region Director of Emergency Services

DENTON, Texas – Below is the March 18, 2016 summary of the ongoing mission that Texas Wing is currently flying in support of Texas State, as it continues to take high-resolution photos of the Central Texas area affected by river flooding, especially the Sabine and Trinity Rivers. The Incident Commander for the mission is Lt. Col. Tom Bishop.

BOTTOM LINE UP FRONT:

- On Friday March 18, 2016, Texas Wing (TXWG) completed 5 air sorties and transferred 874 geotagged images to the State of Texas.
- Mission totals: 56 air sorties (157 flight hours), 7 ground sorties, 8432 geotagged images. Estimated cost to date: \$16,422.
- Imagery has been processed and is available at <http://magic.csr.utexas.edu/public/views/>
- Imagery was used in the State Operations Center (SOC) for situational awareness and planning by Texas Department of Emergency Services (TDEM), Texas Commission on Environmental Quality (TCEQ), and Texas Department of Transportation (TXDOT) and in the attached TDEM Situation Report (SITREP).
- Texas SOC remains at Level 3.



- The State estimates continual requests for CAP services through at least next Wednesday, March 23, 2016 and possibly longer.
- An email from Dr. Wells referring to TXWG leadership states, *"From the comments of Chief Kidd and others in the Emergency Management Council your contributions are making a substantial difference in how this event is being managed by the State... Chief Kidd and others in TDEM leadership are starting to regard TXCAP as a rapid strike asset, roughly the airborne equivalent to a Texas Task Force 1 strike team."*

SITUATION:

- Visual Flight Rules (VFR) conditions and high winds will prevail across the impact assessment area and other portions of the State today.
- Fourteen sorties are planned for today to deliver images of the changing conditions morning and afternoon and crews have been alerted and briefed for early morning launch.
- Imagery will continue over the towns of Jasper and Orange.
- Critical Infrastructure and Key Resources (CIKR) targets being impacted will continue to be photographed.
 - Cottonwood Electrical Generation Plant, a \$1 billion facility reported to be underwater
 - Orion Engineered Carbons Plant, a facility that has open pits of black carbon that may be inundated



- Interstate 10 on either side of the Sabine River which has been closed due to overtopping by flooding
- UP and KSC railroad bridges

WEATHER:

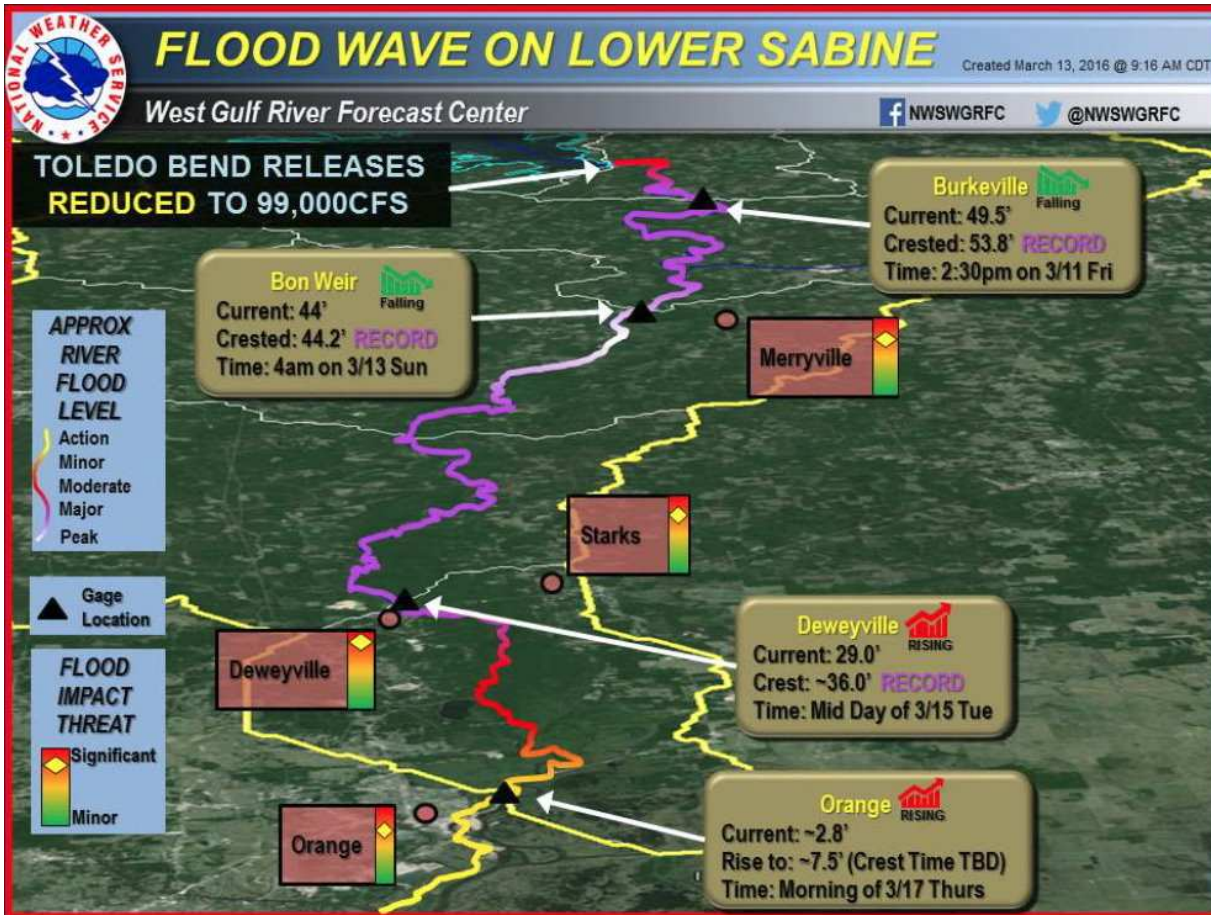
- More rainfall is forecast through Saturday, but the rain will not be excessive and will be followed by a drying trend. During the past 24 hours, a warm front south of the Dallas-Ft. Worth (DFW) Metroplex provided a focus for scattered showers and thunderstorms over northern and eastern Texas into Louisiana. Precipitation amounts were around 0.25 to 0.50 inch in most locations, with slightly higher amounts near Paris and Marshall. This front still persists over northern and eastern Texas and waits the next cold front to arrive. Some additional rain did fall over southeast Texas the past 24 hours south of this front.

TRANSPORTATION/ROAD CONDITIONS

- Union Pacific Rail bridge at I-10 and Sabine River shut down and Union Pacific estimates 4-5 days before reopen
- Emergency Support Function #1 (ESF1) reported Union Pacific Rail Lines have 5 Louisiana Rail Subdivision closures
- Interstate Highway (IH) 10 has been reopened. Water has drained off roadways, but engineers identified three areas of concern during inspection of IH-10.
- Numerous secondary road closures reported due to flooding according to Department of Transportation and Development (DOTD), TXDOT and Louisiana DOT (LADOT).

ACTIONS/FOLLOW UP:

- The current work rhythm is expected to continue through the end of the mission which may extend through March 23, 2016 or beyond.



- Groups continue to roster complete crews: Mission Pilot (MP), Mission Observer (MO), Airborne Photographer (AP) and fully functional aircraft and CAP Nikon D7100 camera.
- Given typical conditions encountered, Instrument Flight Rules (IFR) current and proficient pilots, as well as night current pilots, are a priority.
- Please do not have individual pilots or aircrew call the Incident Command Post (ICP).
- Monitor personnel for signs of fatigue and rehab as needed. Critical Incident Stress Management (CISM) personnel are available.
- Monitor aircraft maintenance, since primary aircraft in continuous use since March 11 will be reaching maintenance times.
- Relocate Wing aircraft as needed.
- The Incident Commander (IC) and staff will work through the Group Commanders or their designee(s) when requesting crews.

DISASTER DECLARATION REQUEST FOR TEXAS:

- On Friday afternoon, FEMA Region VI received a request from the State of Texas for a major disaster declaration as a result of severe storms, tornadoes, straight-line winds and flooding that began on March 7, 2016 and is continuing. Governor Abbott is requesting the Individual Assistance Program and Public Assistance Program (Categories A and B, including Direct Federal Assistance) for the counties of Jasper, Newton and Orange, along with Hazard Mitigation statewide.
- This request is in process. When additional information becomes available, an update will be sent.

FEMA ANNOUNCES FEDERAL DISASTER ASSISTANCE for TEXAS:

- On March 19, 2016, FEMA announced that federal disaster assistance has been made available to the State of Texas to supplement state, tribal and local recovery efforts in the area affected by severe storms, tornadoes, and flooding beginning on March 7, 2016, and continuing. 🇺🇸



Top: Lt. Col. Dwane "Digger" Carey, USAF (Ret) and former NASA astronauts with cadets. (Photos: Maj. Dave Walker, unless otherwise noted)

Arkansas Wing Conducts Aerospace Education Seminar

by Capt. Garrick St. Pierre, CAP, and Maj. Dave Walker, CAP, Arkansas Wing

LITTLE ROCK, Ark. – On Feb. 27, 2016, the Arkansas Wing Aerospace (AE) Education Directorate hosted "A Day with an Astronaut" Aerospace Workshop designed to bring together CAP members and educators at all levels to promote AE. Lt. Col. Dwane "Digger" Carey, USAF (Ret) and former NASA astronaut was the luncheon keynote speaker; he also hosted several break-out sessions. The workshop was open to all educators throughout Arkansas as well as CAP members.

The day began with a welcome and opening remarks from Arkansas Wing External AE Officer Maj. Keith Hudson, CAP. Attendees split into several different break-out sessions. The 14 university-level attendees, representing graduate technical programs from universities across Arkansas, attended the NASA CubeSAT Launch Initiative and BalloonSAT Session. Discussions were held on how to move forward an Arkansas-based initiative and have nano-satellites launched into space. Col. Carey attended the session as well, offering guidance and suggestions for the program. Maj. Hudson, who holds a doctorate of chemistry, a patent for a chemically-based rocket engine, and is the director for the NASA Arkansas Space Grant Consortium, represented CAP's involvement in the program. The decision was also made to assist Arkansas Wing Civil Air Patrol's cadets and AE Officers to design, build, and launch a nano-satellite experiment through the NASA initiative.

Thirty-four CAP cadets and senior members spent the morning with Maj. Pat Schmidt, the Fort Smith Composite Squadron AEO. Using the AEX activity from Civil Air Patrol's *Middle School AEX for Physical Sciences*, the cadets and seniors members spent the morning competing to use various materials to design a parachute that could carry a payload (an egg) softly to Earth. Arkansas Wing Headquarters' fire escapes provided the perfect drop point for the activity. This activity required the participants to critically think about the nature of atmosphere, states of matter and weight vs. lift while trying to complete the project with the lowest expenditure of team "funds." The senior members lost to one of the cadet groups, who achieved the lowest-cost and highest-performing parachute.



K-12 educators along with AEOs attended a break-out session with Capt. Garrick St. Pierre, Arkansas Wing DAE, to explore the scholastic side of Aerospace Education. Two activities (Making a Hot Air Balloon and Wing Lift – both *Aerospace Dimensions* modules chapter activities) were conducted,

demonstrating various instructional techniques for presenting AE activities as well as academic curriculum alignment with Common Core and NextGen Science standards. Participants also took a couple of “field trips” to the parachute activity to observe student and instructor interaction, activity coordination, and participant engagement in the activity, which was then discussed as a group upon their return to the classroom. AEOs learned how easy it is to present a fun hands-on activity while meeting CAP and academic standards, and educators saw how effectively AE can be used to meet academic standards.

The morning sessions were designed to explore educational opportunities within Arkansas and to demonstrate CAP specific educational materials, programs, and instructional techniques.

Lunch was provided to all the participants through a grant and they listened to Lt. Col. Carey speak about how he went from living in public housing and hopping freight trains to commanding 60-aircraft multi-national strike packages during Operation Desert Storm, test-piloting Air Force F-16 jet fighters beyond the edges of their flight envelopes to eventually piloting NASA's Space Shuttle at Mach 26 (Space Shuttle Mission STS-109) to repair the Hubble Telescope.

Participants spent the afternoon attending small group Q&A meetings with Lt. Col. Carey and an AEX I (“Let's Orbit a Satellite”) presentation conducted by Maj. David Walker, Arkansas Wing Internal AEO and Capt. Jerome Grotts, 115th Composite Squadron AEO. The afternoon CAP presentations was accompanied by demonstrations from teams involved with NASA's CubeSAT and BalloonSAT programs. Cadets and senior members were enthusiastic about engaging in a wing-wide activity to design an experiment and build a CUBE satellite for launch. Lt. Col. Carey spent several hours answering questions between a cadet-only Q&A and senior member Q&A. He urged participants to encourage STEM education and for the cadets to take advantage of all educational opportunities while they have a chance. The workshop closed with all participants agreeing to work together to further Aerospace Education in Arkansas. 🇺🇸

Above: Cadet Maj. Zane Phillips releases his entry in the Egg Drop competition. (Photo: Maj. Dave Walker)

Right: (L-R) 42nd (Little Rock) Composite Squadron Commander Maj. John Bowden and USAF Lt. Col. Carey.



1, April, 2016



New Mexico Wing Prepares to Celebrate CAP's 75th Anniversary

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

ALBUQUERQUE, N.M. - Although Civil Air Patrol does not officially celebrate its birthday until Dec. 1, National Headquarters kicked off the organization's 75th birthday celebration at its Command Council meeting, held over the weekend of Feb. 25-27, 2016, at the Crystal City Marriott in Washington to commemorate this most important milestone. At the Command Council reception on the evening of Feb. 25, CAP launched its 75th Anniversary Website, which reflects the

organization's long and storied history.

CAP members at all levels are encouraged to promote CAP's 75th birthday in their news releases, as part of their recruiting and retention efforts, and as their overall branding and marketing.

At the New Mexico Wing Commanders Call and Staff Meeting of March 12, 2016, New Mexico Wing Commander Col. Mike Lee reiterated the importance of such an occasion. Wing Public Affairs Officer Lt. Col. David Finley informed those present of the 75th Anniversary logos, which can be found at www.cap75th.com/resources.

Civil Air Patrol was founded on Dec. 1, 1941 – just six days before the Japanese attack on Pearl Harbor. During World War II, CAP's unpaid volunteers assisted the active-duty military with such routine tasks as coastal patrol, border patrol, target towing, and courier service. In fact, over an 18-month period, CAP pilots patrolled the Atlantic coast of the United States sighting 173 German submarines and being credited with sinking two of them.

On Dec. 10, 2014, Speaker of the House John Boehner presented CAP National Commander Maj. Gen. Joseph Vazquez with the Congressional Gold Medal, the highest symbol of appreciation for those volunteers who sacrificed time, talent, and even life in defense of our country during World War II.

Since World War II, CAP has been tasked with three main missions: Emergency Services, Aerospace Education, and the Cadet Program. Since 2001, CAP has also been tasked with homeland security, being the first non-military aircraft allowed in the air after the terrorist attacks on Sept. 11, 2001. In July 1946, Congress declared CAP to be a benevolent, nonprofit corporation. Two years later, in May 1948, Civil Air Patrol became the official Auxiliary of the United States Air Force.

CAP founder Gill Robb Wilson foresaw the need for a civil aviation corps as early as 1936, upon his return from Germany, where he had learned that only military aircraft were allowed in the air. In no small measure, his decision was motivated by his love of flying. In his poem *First Things First*, he wrote,

*And of the living ... none, not one,
Who truly loves the sky,
Would trade a hundred earth bound hours
For one that he could fly. 🇺🇸*



Top: Lt. Col. Jayne Pace (third from right) with her family at grandson's graduation. (Photo: Family member)

Below: U. S. Rep. Michael McCaul in conversation with Lt. Col. Jayne Pace. (Photo: Capt. Audrey Morrow)

Celebrating the Life and Service of Lt. Col. Jayne Pace, CAP

by Capt. Audrey Morrow, CAP, Texas Wing



HOUSTON, Texas – After a long life of dedication to her family, country and community, Lt. Col. Jayne Pace gently passed away on Feb. 7, 2016 at the age of 93. She was born in Forest Hill, Texas, just outside Fort Worth. As a child walking to school, she was fascinated by the flight of butterflies, wishing she could fly as they did.

After high school, she attended Trinity University in San Antonio and later went on to earn her private pilot's license, making her dreams of flight come true. When her husband was stationed in New Orleans during World

War II, she showed her patriotism by joining Civil Air Patrol (CAP). She flew solo patrols along the Louisiana coast, searching for enemy submarines. The planes she flew were Stearmans, Piper Cub J-3's and Taylorcrafts. Few women had her courage. These flying CAP women, who called themselves "Awesome Babes," experienced some resentment from the male pilots, but that served only to strengthen their determination.

She relocated to Washington and continued to serve America as a Red Cross volunteer. She transported wounded to Walter Reed Army Hospital, and often spent time with the patients playing card games or just talking and keeping them company.

At war's end, she remained with aviation, working for Pan American Airlines in Houston, and later modeled for Nieman Marcus, Oshmann's and Ralph Rupley Furs.

Payne worked diligently for her political party for many years, mailing flyers, working on committees and spending endless hours phoning voters. She was one of the first members of the Memorial Drive Presbyterian Church, where she sang in the choir and taught Sunday school.

She continued to serve her community while raising two daughters, Janis and Cynthia. She took great pride in her four grandchildren and seven great-grandchildren, spending time teaching and being a guide in their lives.

She re-joined Civil Air Patrol in 2006 and became an active member of Texas Wing's Thunderbird Composite Squadron. Her goal was to inspire cadets by instilling in them a sense of patriotism, dedication and honor. They loved to gather around to hear her stories about her adventures and what CAP was like in those early days.

Below: Sen. John Culberson, CAP National Commander Maj. Gen. Joseph Vasquez, Lt. Col. Jayne Pace and Rep. Michael McCaul at the U.S. Capitol. *(Photo: Family member)*





Above: Lt. Col. Pace receives Congressional Gold Medal from CAP National Commander, Maj. Gen. Joseph Vasquez. (Photo: Family member)

One young boy from her Sunday school class is now an active senior member of Civil Air Patrol. Payne and 1st Lt. Richard Bonica rejoiced in getting reacquainted. She was very proud of his dedication and service.

On Oct. 15, 2014, she was honored locally for her service in WWII at a ceremony held by Congressman Michael McCaul, U. S. Representative for the 10th District of Texas, at the Katy War Museum. She enjoyed telling about her experiences flying during the war. McCaul presented her with an American flag that had been flown over the U. S. Capitol in her honor, and said, "Now you are immortal."

Her proudest moment came on Dec. 10, 2014, in Washington, when she was among forty recipients awarded the Congressional Gold Medal for their service to the United States during WWII. The medal was presented to the Civil Air Patrol. Congressman McCaul individually recognized her at the ceremony held in the U. S. Capitol, where she received a standing ovation by more than 600 attendees. At a dinner later that evening, each honoree was given a replica of the Congressional Gold Medal; the original remains on permanent display at the Smithsonian Institution.

"Jane brought me into CAP in 2010, where she became a wonderful and dear friend; she gave me an opportunity to serve in something really important and I will miss her greatly," said Capt. Audrey Morrow.

Upon hearing of her death, Lt. Col. Bob Beeley commented, "I was saddened to hear of her passing. What a great lady."

Lt. Col. Payne will be greatly missed by all those she touched. She left a legacy of memories, and inspired many with a desire to love and serve America. 🇺🇸



Top: Cadet 1st Lt. Coy Nickerson and Cadet Sr. Airman Joshua Davies look on as Cadet Staff Sgt. Conner Gay holds the 'Lil L'Per case and Maj. Randy Lauterbach prepares it for the sortie. (All photos: Capt. Joshua B. Bass)

Below: Trainees participate in a litter carry, instructed by Cadet Chief Master Sgt. Colton Barron

Louisiana Wing Squadron Hosts 3rd Cold Weather Survival Course

by: Capt. Joshua B. Bass, CAP, Louisiana Wing

BELLEVIEW, La. – During the long weekend of Jan. 15-17, 2016, Louisiana Wing's Barksdale Composite Squadron held its 3rd Annual Cold Weather Survival Course and Bivouac. Having grown from 12 to 21 attendees for the first two, respectively, this year's event saw 56 CAP cadets and senior members from 7 different squadrons, in 3 wings: Louisiana, Arkansas and Texas, plus the 13 senior members from the Shreveport Senior Squadron that supported air operations from Shreveport Downtown Airport.





Above: Cadet Lt. Col. Matthew Pourteau instructs Ground Team Alpha on map orientation.

Below: Ground Team Bravo prepares the ground-to-air signal of "affirmative" for the communications-out portion of the exercise.

This exercise focuses members on no-frills camping at ambient temperatures of under 50 deg. Fahrenheit. Members can then experience what this feels like prior to a multiple-day deployment in cold temperatures. Average night-time temperatures were at the freezing mark.

Arriving at 1800 at the camping area of the Bayou Bodcau Recreation Area in Belleview, darkness had already set in. The evening was devoted to the safety



briefing for the operation, camp set-up, and the class instruction on cold weather injury treatment and prevention. Afterwards, participants settled in for a night of cold camping.

On the following day after breakfast at 7 a.m., instruction began on tasks from the Ground Team Task Guide as mission base prepared the air sorties for the day. Separated into 4 groups, members rotated through stations where experienced skill evaluators instructed them on ground team-related tasks. Between classes, Mission Base at the Shreveport Downtown Airport tasked the Belleview group on two sorties during which trainees were able to train on ground-to-air signaling, air-to-ground signaling, communications-out simulation, a missing person mission, and searching for and Emergency Locator Transmitter (ELT) with aircrew support. Between tasking from mission base, the Belleview group trained and evaluated other tasks such as: search lines, whistles, clues, maps, compass, phone alerts, and ELT location.

Having completed a full day of training, trainees and instructors enjoyed fellowship around campfires, grilled out a few burgers, and prepared a pot of homemade gumbo. But the day was not yet over: after dinner there was more classroom-style instruction, particularly on cold weather operations and safety, ending with the briefing for Sunday's activities.

Some members had traveled over 5 hours on order to attend the training, so Sunday saw instruction on a few final tasks including litter carry, orienting maps and topography. When camp was broken, the area that the US Army Corps of Engineers had set aside for the group's training was policed up and left in better-than-found condition.

At training's end, several cadets and senior members had been qualified for the basic ground team badge and emergency services patch along with UDF qualifications. One cadet and one senior member completed tasks for GTM2. With so many skill evaluators available, members could be trained in most any mission specialty they needed. Progress was made in many mission qualifications and sorties counted.

After this experience, one thing became clear: if someone's ELT goes off in Northern Louisiana, now there are people qualified to find it. Trainees did very well and applied themselves to the task. Also, the choice was unanimous: there will be an even bigger 2017 Annual Cold Weather Survival Course and Bivouac. 🇺🇸

Below: Ground Teams form up for morning stretches and warm-up before the first sortie briefing.





Top: (L-R): Squadron Commander Capt. Mary A. Fox, Cadet Chief Master Sgt. Davis E. Little, and DAR members Margaret Stewart and Karen Oligher, who presented Cadet Little with the DAR's Outstanding Cadet Medal – the first awarded in the State of New Mexico. (Photo: 2nd Lt. Carissa N. Nichols, CAP)

New Mexico Cadet Receives Outstanding Cadet Medal from Daughters of the American Revolution

by Lt. Col Jay T. Tourtel, CAP, New Mexico Wing

ALBUQUERQUE, N.M. – On Feb. 20, 2016, Cadet Chief Master Sgt. Davis E. Little of Albuquerque Heights "Spirit" Composite Squadron received the Outstanding Cadet Medal from the Lew Wallace Chapter of the National Society of the Daughters of the American Revolution (NSDAR), at the Tanoan Country Club in Albuquerque, N.M.

The Outstanding Cadet Medal is awarded to a student for participation in a non-ROTC, military-affiliated cadet program, such as Civil Air Patrol, Naval Sea Cadets, Young Marines and others. The medal recognizes a cadet who has distinguished himself or herself through outstanding leadership, honor, service, courage and patriotism. The DAR awards one medal per year per cadet unit. This is the first year that NSDAR has awarded the medal, and Little was New Mexico's first recipient.

Little has been a member of CAP and the squadron since August 2014. He is currently the cadet noncommissioned officer in charge of basic cadet training.

The National Society of the Daughters of the American Revolution, founded in 1890 and headquartered in Washington, is a non-profit, non-political volunteer women's organization dedicated to promoting patriotism, preserving American history, and securing America's future through better education for children. 🇺🇸



Above: (L-R) Lt. Col. Eric Boe, Ellington Composite Squadron's deputy commander for cadets and NASA astronaut; Staff Sgt. Brian German, Space Exploration Educators Conference (SEEC) event director of ground transportation; Lt. Col. Steve Hudson, SEEC event operations director/incident commander; Maj. Stuart Hagedorn, SEEC event project officer/coordinator; and Texas Wing Commander Sean Crandall greet educators at the SEEC. *(Photo: Debbie Dahl, CAP National Headquarters)*

Below: CAP National Headquarters Aerospace Education Team (L-R) Ginny Smith, Debbie Dahl, and Sue Mercer showcase CAP's STEM education programs during a teacher break-out session. *(All other photos: Maj. Kate Schoessler)*

Civil Air Patrol Inspires Teachers at Houston Aerospace Conference

by Maj. Kate Schoessler, CAP, Texas Wing

HOUSTON – During Feb. 4-6, K-12 teachers gathered from all over the world to learn about integrating Aerospace Education (AE) and Science, Technology, Engineering and Mathematics (STEM) into their classrooms at the annual Space Exploration Educators Conference (SEEC).

The event, which was hosted by Space Center Houston, is the premier AE outreach activity conducted by NASA Johnson Space Center specifically for teachers. This marks the seventh consecutive year that Civil Air Patrol has participated in the conference and is now recognized as a SEEC Partner.





Top: CAP pilots Capt. Richard Erickson (far right) and Maj. Gerard Bulhon (third from right) with some SEEC teachers at Ellington Field prior to teacher orientation program flights.

During the event, teachers attended seminars, toured behind the scenes at Johnson Space Center, heard special presentations by astronauts, networked with like-minded AE educators, and gathered information from organizations that work in the aerospace industry.

The CAP National Headquarters (Montgomery, Ala.) AE team of Debbie Dahl, Sue Mercer and Ginny Smith attended the conference and assisted in all areas of the CAP presence. Texas Wing's Director of AE Lt. Col. Levant Vural and Internal AE Officer 1st Lt. Richard Bonica manned an exhibit booth filled with information on CAP's free K-12 AE/STEM programs/products and hands-on-demonstrations of CAP's STEM Kit Program that included astronomy, model and remote-control aircraft, robotics, rocketry, and flight simulator equipment. Teachers and CAP squadrons alike can apply to receive the STEM Kits free of charge. Prior AE experience is not required, since the packet includes a detailed educational guide and full instructions.

The CAP National HQ AE team also presented more of CAP's free educational programs to the event's attendees, to include a hands-on seminar on the unique K-6 grade-level specific Aerospace Connections in Education (ACE) program.

CAP supported the conference in other ways, with events coordinated annually by Maj. Stuart Hagedorn, Texas Wing assistant director of operations and SEEC project officer. At nearby Ellington Field, Texas Wing members worked with the Air National Guard's 147th Reconnaissance Wing to fly educators as part of CAP's free Teacher Orientation Program. With excellent weather conditions, detailed planning, and skillful execution by its members, CAP

provided orientation flights to 59 teachers in Cessna 172 and 182, as well as the GippsAero GA-8 aircraft.

For many of the teachers, their CAP orientation flight – during which they had the opportunity to take supervised control of the aircraft and receive introductory instruction in the basics of aviation – was the first time they had flown in a small aircraft.

After the flights, the Air National Guard provided tours of their facilities and military aviation technology. CAP's Ellington Composite Squadron assisted with ground coordination and transporting teachers to and from Space Center Houston and Ellington Airport. Lt. Col. Eric Boe, Ellington Composite Squadron's deputy commander for cadets and NASA astronaut, also met and discussed the space program with the teachers.

Texas Wing Commander Col. Sean Crandall inspired educators to ignite aerospace interest in young students, who might want to become CAP cadets. With these many activities and special visitors, the teachers left the airfield with smiles, pictures, and many stories to share with their students.

The SEEC program's success will ultimately lead to increased AE and STEM learning opportunities for students of all ages. Through its yearly support of the event, CAP continues to reinforce the important role AE has in classrooms to teachers across the nation and around the world. 🇺🇸

Below: CAP pilot Maj. Gerard Bulhon speaking to teachers about the orientation flight.





Top: Elementary school teacher Karen Corbin Clarke shows her Civil Air Patrol First Flight Certificate. With her is her Certified Flight Instructor Lt. Col. Richard Shortridge, a member of the Deer Valley Squadron 302. (Photo: Lt. Col. Peter Feltz)

Arizona Wing Keeps Teacher Orientation Flights Alive

by Lt. Col. Peter Feltz, CAP, Arizona Wing

ANTHEM, Ariz. – Teacher Karen Corbin Clarke of Anthem Elementary received her Teacher Orientation Program (TOP) flight on March 13, 2016. She got to fly over her home, the Anthem School and Lake Pleasant, during which she took many photographs from the air. She is a third grade teacher and promised to promote her flight with the school's other Aerospace Education Member teachers and her students.

"I am thrilled at this wonderful experience," she said after she landed. "I never thought it could be this much fun."

This is the purpose of Civil Air Patrol's TOP flights, as it seeks to expose educators to the adventure of flight and the importance of aerospace technology in today's world. Her pilot was Lt. Col. Richard Shortridge from the Deer Valley Squadron 302. Since he is a Certified Flight Instructor, Clarke got a first-class guide and mentor for her first small-airplane flight. 🇺🇸



Top: Capt. Robert Fay performs pre-flight inspection. (Photos: Capt. Audrey Morrow)

Below: USCG officers brief participants during the exercise.

Texas Wing Hones Emergency Services Skills in Joint Exercise

*by Capt. Audrey Morrow, CAP,
Texas Wing*

HOUSTON— On Feb. 24–25, 2016, the U. S. Coast Guard based at Ellington Field hosted a Joint Emergency Services exercise. Participating in the event were the U. S. Coast Guard Houston and Galveston sectors, Texas Department of Public Service, Civil Air Patrol, and Texas Air National Guard. Maj. Aric Holly served as liaison for the U. S. Air Force. Over 400 personnel took part in this exercise.





Above: Incident Commander Capt. Ken Wiggins (2d from left, standing) gives briefing.

Below: New Garmin VIRB wing mounted camera.

The scenario assumed a worst-case event. A Category 5 hurricane hit the area, with landfall on the Bolivar Peninsula. This affected crucial points in the surrounding land mass and facilities. Capt. Ken Wiggins served as Incident Commander. Col. Brooks Cima and Maj. Jawad assigned the tasking. Lt. Col. Don

Anderson set up the complicated communications.

Areas assigned were Bolivar Peninsula, Galveston Island, Houston Ship Channel, the Port of Houston, Texas City oil refineries, plus area fairgrounds and parks. Grids were assigned with specific points of interest in each grid. At each point, radio contact with the Coast Guard was required in order to report the observed conditions. Altitudes were given for specific aircraft: helicopters were assigned to fly at 500 ft. over the terrain, while fixed wing aircraft would fly at 500 to 1,000 ft. over the ground.

The morning of Wednesday, Feb. 24, proved challenging at Ellington Field, as winds gusting to over 15 knots put CAP aircraft at risk for crosswind landings. Conditions improved in the afternoon, and sorties could be completed safely. A total of eight sorties were flown on that day. All but two sorties were flown using the new Garmin wing-mounted VIRB high-resolution video-recording camera. The results from using this camera were excellent. The only problem that arose from their use was the battery's short one-hour life. The standard Nikon high-resolution camera was used in all sorties.

In the two days of the exercise, a total of eight sorties were flown. For the event, CAP aircraft were relocated from Sugar Land Regional Airport, Houston Executive Airport, and Pearland Regional Airport to Ellington Field.

Because all area agencies normally train individually in their search and rescue procedures, joining in one common exercise is critical in order to gain experience in efficient coordinated work in the event of a major disaster. Good communications is a major factor. Orchestrating such an exercise is a large undertaking, as it needs to incorporate the many different capabilities of each agency in the pursuit of a common effort.

Using effectively the lessons learned at events such as this one can be a major factor in saving more lives and safeguarding property. 🇺🇸





Top: On Jan. 9, 2016, Capt. Ryan Stark of the New Mexico Wing's West Mesa Composite Squadron poses with members of the 501st Legion "Star Wars" costuming group at the Albuquerque Comic Con. (Photo: New Mexico Wing PA Team)

New Mexico Wing's Recruiting Effort at Albuquerque Comic Con

by New Mexico Wing Public Affairs

ALBUQUERQUE, N.M. — As part of the New Mexico Wing's renewed marketing efforts, on Jan 9, 2016, New Mexico Wing members joined the thousands attending the Albuquerque Comic Con.

Capt. Ryan Stark of West Mesa Composite Squadron, who was recently appointed by Wing Commander Col. Mike Lee to lead recruiting and retention for the wing, said that the Comic Con was a logical place for CAP to seek prospective new recruits of all ages.

"When you think about it, a lot of these folks are already into things like aviation, astronomy, computers, weather and a lot of other areas that touch on some aspect of CAP's mission," Stark said. "If some of them liked watching Luke Skywalker fly an X-wing fighter or plays video games, they're probably going to like flying search-and-rescue in a Cessna, too."

Stark added that several of the people he talked to on the first day of the convention were former CAP members looking to re-join, and yet others had never heard of CAP – but were interested in participating.

Given the crowded marketplace that any volunteer organization like CAP is drawing from, Stark believes that having high visibility at events like the Comic Con are vital for CAP in terms of targeting people who already have interests that align with CAP's mission and activities.

"In this varied world, you can't cast a wide net and expect to catch peoples' attention," he said. "Especially given our limited budgets and manpower, nonprofits like CAP are best advised to focus on market segments where the interest is more likely to be there than not."

New Mexico Wing Director of Aerospace Education Lt. Col. Roland Dewing, West Mesa Composite Squadron (WMCS) Commander Capt. Jenifer De La Garza and WMCS Cadet Commander Cadet 2nd Lt. Cait De La Garza also worked at the table during Comic Con, familiarizing hundreds of attendees with CAP and its mission. 🇺🇸



Top: Cadet Sr. Airman Hudson Ford and Senior Member Lee Wilson exit the CAE Simuflite Bombardier Global Express simulator. (Photo: Capt. Opal McKinney)

Below: Cadet 2nd Lt. Philip J. Hawthorne at the controls of the Bombardier Global Express simulator.

Texas Wing Cadets Learn Real Lessons on a Simulated Aircraft

by Senior Member Andrew McClellen, CAP, Texas Wing



MESQUITE, Texas – On Feb. 6, 2016, while on final approach to New York City's LaGuardia Airport, the world outside the Bombardier Global Express business jet came to an instant halt. Acting as pilot in command, Cadet Airman 1st Class Ford used the pause to receive coaching from Lt. Col. Richard Martin on how to make a smooth landing. A moment after the lesson was over, the airplane resumed its descent under Ford's control until touching down.

It is not possible to make an airplane pause in mid-air, but the training simulators at CAE Simuflite near Dallas-Fort Worth International Airport make the impossible appear real. CAE Simuflite had graciously invited cadets from the Mesquite, Texas-based Black Sheep Composite Squadron of the Civil Air Patrol to experience the look, feel, and dynamics of flying a \$55 million commercial jet.

As one example of over fifty at the facility, the training simulator faithfully reproduces real-world scenarios that a professional pilot might

experience, using real-world controls, window displays, and switchgear. The simulator's cockpit owes its realism to its having been harvested from an actual Bombardier jet. The donor aircraft had been damaged beyond repair, and while the wreckage was still being valued at \$2.5 million, it was the source of the simulator's authentic cockpit controls.

Accompanied by Capt. Opal McKinney, 2nd Lt. Michael Shoaf, and Senior Member Lee Wilson, seven Black Sheep Composite Squadron cadets took turns as pilot in command of the business jet simulator.

After becoming familiar with the operation of the controls, Cadet Airman 1st Class Wilson faced snowy conditions and preferred a clear sky to navigate, while Cadet 2nd Lt. Hawthorne embraced the challenge of flying in low visibility conditions.

Lt. Col. Martin increased the training's intensity for Cadet 2nd Lt. Pruitt by introducing another jet, just seven hundred feet ahead and slightly above the horizon. Acting on the adage "try, try again," the simulator allowed Pruitt to evade the traffic on a second attempt after the first attempt resulted in a mid-air collision.

Cadet Airman Robinson enjoyed flying high and fast over the New York City area. After flying over the Rocky Mountains, Cadet Staff Sgt. Shoaf made a landing at the Denver International Airport. Although Shoaf stalled the airplane just feet above the ground, the rough landing did not result in any damage.

Cadet Airman 1st Class Habia tested the Global Express' off road credentials by coaxing the jet off the ground after taking off across a taxiway, across adjacent grass, and through two security fences.

The cadets enjoyed operating the simulator and, just like pilots that regularly train in the simulator, enjoyed the facility's cappuccino machine. The Black Sheep Composite Squadron thanks CAE Simuflite for the use of their facilities and Lt. Col. Martin for facilitating the event. 🇺🇸

Below: (L-R) Cadet 2nd Lt. Mason Prewitt and Lt. Col. Richard Martin. *(Photo: Capt. Opal McKinney)*





Top: Some of the Arizona Wing attendees at the Capitol. (Photos: Lt. Col. Peter Feltz)

Below: The Arizona Wing Color Guard presents the colors.

Arizona Wing Participates in Arizona Aviation Day at the Capitol

by Lt. Col. Peter Feltz, CAP, Arizona Wing

PHOENIX – Jan. 28, 2016 was the best representation of the Arizona Wing in many years. Not only was the Aerospace Education Team there, but cadets and senior members from Squadrons 302, 388, 305, 107 and 310 also attended the event.

The Verde Valley Sq. 107 brought 5 cadets and Senior Members Jean Marie Nixon and Pat Nixon. The Deer Valley Sq. 302 brought their Color Guard, 6 other cadets, and 3 senior members.

All in all Arizona Wing was represented by 34 CAP members. It was a sunny day with temperatures in the low 70s that brought out the legislators at lunch time, and nearly filled all the tables. Those in attendance praised the meal. The presentations included the Governor's Decree declaring the day as Aviation Day, once again mentioning how important aviation is to Arizona.

Recent statistics show that the aviation industry contributed over \$86 million dollars to the local economy in 2015. CAP members who attended the festivities were able to visit with their district legislator and discuss current and future needs.

Notably, the Civil Air Patrol's presence helped educate those in attendance on what CAP is all about. The Arizona Wing Legislative Liaison and Squadron Commander Lt. Col. James Nova was pleased with the turn-out. Currently, the Legislative Squadron has some 45 legislators as squadron members. 🇺🇸





Top: Posting of the Colors (*All photos: Capt. Audrey Morrow*)

Below: At the head table: (L-R) Maj. Daniel Schoessler, Maj. Kate Schoessler, Lt. Col. Joyce Kassai, Lt. Col. David Ogden, and 1st Lt. Diane Kennedy

Texas Wing Squadron's Annual Awards Banquet

by Capt. Audrey Morrow, CAP, Texas Wing

SUGAR LAND, Texas – On Feb. 6, 2016, the Sugar Land Composite Squadron held its Annual Dining-in Banquet at the T. E. Harman Center. The event was the result of months of hard work and planning by Lt. Col. Joyce Kassai, president of the mess, along with the organizing skills of 1st Lt. Diane Kennedy and 1st Lt. Patrick Kennedy who served as vice-president of the mess. The event was patterned after the protocol of a formal military officers' mess and awards dinner.



Right: Larry Fletcher shows his Congressional Gold Medal

Below: Cadet 2nd Lt. Emily Smith receives her award from Lt. Col. David Ogden.

"Tonight presents an opportunity for us to celebrate the 75th anniversary of Civil Air Patrol, recognize achievements, accomplishments, and service to our community over the past year, and build esprit-de-corps," said Lt. Col. Kassai.

Guests were greeted in a receiving line at the lounge area. A professional photographer was on hand to take photos of CAP officers and honored guests. This was an opportunity for families and friends to mix and renew bonds of friendship and professional association. Among the honored guests was Congressional Gold Medal recipient James Lawrence "Larry" Fletcher, accompanied by his family, who collectively answer to the moniker of *The Flying Fetters*. Memorabilia from Mr. Fletcher's CAP service and aviation career were on display.

Mess President Kassai formally opened the proceedings with a Posting of the Colors. Squadron Chaplain (Maj.) David Wersler pronounced the invocation that was followed by the traditional toasts. Members of the head table were Maj. Daniel Schoessler, Maj. Kate Schoessler, Lt. Col. Joyce Kassai, incoming Group IV Commander Lt. Col. David Ogden, and 1st Lt. Diane Kennedy.

Following a dinner catered by Jim Tidwell, the rite of grog-drinking got started. Lt. Col. David Ogden was caught putting his elbows on the table while eating, a breach of etiquette that was noticed. He cheerfully stepped up to the punch bowl and quickly drank his cup of grog.

Lt. Col. Joyce Kassai and Lt. Col. David Ogden presented awards for volunteer service, excellence, and integrity to fifteen members, a very high number of citations from among a squadron membership of forty-seven.

Maj. Kate Schoessler, public affairs officer of the Ellington Composite Squadron, was the guest speaker. Maj. Schoessler described her position with NASA as a biomedical flight director. She explained how the many facets of day-to-day living needed to be modified to adapt to life in the International Space Station. Since bone density is diminished in space, a regimen of continual exercise is of critical importance. Notably, the first musical instrument played in space was a bagpipe, and the piper had a captive audience.

The Colors were retired, marking an end to the evening. Non-member guests were impressed by the Civil Air Patrol's Core Values and Mission.

"I'd like to extend my gratitude to the parents of our cadets," Said Lt. Col. Kassai. "Thank you for allowing us to mentor, encourage and prepare your cadet as the next generation of leaders in America. To the spouses of our senior members, thanks to you all for giving up family time so the mission of CAP can continue." 🇺🇸





Arizona Wing Aerospace Education Team Helps Anthem Elementary “STEAM” Kick Off


by Lt. Col. Peter Feltz, CAP, Arizona Wing

ANTHEM, Ariz. – On Jan 28, 2016, the Arizona Wing Aerospace Education Team had a lot of help from Deer Valley Composite Squadron 302 with Deputy Commander for Cadets Capt. Amber O'Donnell bringing along 6 cadets to help out. Other assistance came from Maj. Roger Yeager of Glendale Squadron 388 who brought the Telescope STEM Kit and set it up outside to view the stars. The Anthem students and parents said that they liked the setup.

Maj. Roger Yeager of Glendale Squadron 388, Lt. Col. Pete Feltz, Capt. Angelo Rossetti of the 302 Composite Squadron, Capt. Amber O'Donnell, Maj. Patrick Nixon from Verde Valley Squadron 205, and Lt. Col. Fritz Seifritz were the senior members in attendance.

The Arizona team has attended these kick-offs in the past, but this one may have been the best showing ever. There were a number of other exhibitors but one of the more significant was the Drone Media Group who brought a number of “copter drones”; they may be able to help the Arizona Aerospace Team at other functions.

The Arizona Wing booth had much activity and the CAP members were able to do some recruiting as well as show the parents a display of some of the items that CAP supplies to 45 of the Anthem teachers to help them promote Aviation and Aerospace in their classrooms.

Anthem Elementary announced this as the “STEAM” Kick-Off last year, when they added the “A” for Art. 



Top: Outgoing Commander Maj. Lloyd J. Voights (right) receives Civil Air Patrol's Commander's Commendation Award from New Mexico Wing Commander Col. Mike Lee. (Photos: Lt. Col. Jay T. Tourtel, CAP)

New Mexico Wing's Squadron Conducts Change of Command Ceremony

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

ALBUQUERQUE, N.M. – On Mar. 3, 2016, Maj. Lloyd J. Voights stepped down as commander of Albuquerque Heights "Spirit" Composite Squadron, and was succeeded by Capt. Mary Fox at the squadron's change of command ceremony.

Voights has been a member of CAP and the squadron since April 2009. He has served as aerospace education officer, emergency services officer, deputy commander for seniors and deputy commander for cadets. On Mar. 5, 2015, he became the squadron's fifth commander.

Although he commanded the squadron for only one year, Voights strengthened the squadron's aerospace education, emergency services and cadet programs, as well as presided over the squadron's 10th anniversary on July 9, 2015 (the squadron was chartered on July 11, 2005.)



Above: Incoming commander Capt. Mary A. Fox receives her Certificate of Appointment as squadron commander.

For his outstanding service to the squadron, Voights received Civil Air Patrol's Commander's Commendation Award from New Mexico Wing Commander Col. Mike Lee.

Capt. Fox received her certificate of appointment as the new commander, and then the actual change of command ceremony took place. Maj. Voights handed the squadron guidon to Col. Lee, signifying his relinquishment of command. Col. Lee then passed the guidon to Fox, whereby she formally accepted command of the squadron.

Fox has been a member of CAP and the squadron since March 2011. She was a cadet sponsor member until September 2012, when she became the squadron's aerospace education officer. Most recently, she served as deputy commander for seniors under Voights.

Following the ceremony, attendees celebrated with ice cream and cake. 🇺🇸



Above: Presenting the check to Air Force ROTC Cadet 4th Class Cody McCallum were Angelo State University ROTC Detachment 847 Commander Lt. Col. Scott Partin (right) and Angelo State University Dean of College of Business Dr. Clifton Jones. (Photo: Angelo State University AFROTC Cadet 3rd Class Wyatt Bersch)

Texas Wing Member Merits \$25,000 AFROTC Scholarship

by Maj. Johanna Augustine, CAP, Texas Wing

GRAPE CREEK, Texas – On Feb. 17, 2016, Civil Air Patrol 1st Lt. Cody McCallum was awarded a three-year Air Force Reserve Officer Training Corps Type 2 scholarship worth approximately \$25,000 to continue his education through Angelo State University's AFROTC Detachment 847.

First Lt. McCallum is a member of the Three Rivers Composite Squadron in Grape Creek. He joined CAP in 2006 at the age of 12, reaching the rank of cadet major and upon turning 21 he became a senior member.

As a cadet, he attended nine encampments, eight as a staff member to include serving as encampment commander for New Mexico Wing in 2012. He also attended National Blue Beret School in Oshkosh, Wis. in 2013, and traveled to England as a member of the International Air Cadet Exchange program in 2015.

McCallum continues to be an active member of the squadron while pursuing his education. He is currently majoring in Intelligence, Security Studies and Analysis. He plans to be a pilot in the Air Force.

He attributes much of his success in the program at this point to his time in the Civil Air Patrol. "CAP has been my biggest help in ROTC. I was able to start a few steps ahead of my peers," said McCallum. "There's no way I would've earned a full scholarship without my CAP experience. Good grades, CAP experience and hard work were the biggest factors in earning this scholarship."

CAP First Lt. McCallum received the scholarship through the AFROTC In-College Scholarship Program. By accepting the scholarship he agreed to the following:

- Enroll in the academic major for which the scholarship is offered
- Complete a 24-day summer field training course at Maxwell AFB, Alabama sometime between his sophomore and junior years
- Complete an AFROTC General Military Course on his freshman and sophomore years and the Professional Officer Course on his junior and senior years.
- Accept a commission as an Air Force officer and serve at least four years on active duty. 🇺🇸



The Fly-By, Southwest Region, April, 2016

Southwest Region's Nominations for Civil Air Patrol National Awards

WICHITA FALLS, Texas – Southwest Region Commander Col. Mark Smith has approved the following personnel and unit list for submission to Civil Air Patrol National Headquarters for consideration for the corresponding national award.

Aerospace Officer of the Year, Maj Gen Jeanne M. Holm's Award: Lt. Col. Kathleen E. Beauford, LA-093

Aerospace Education Teacher of the Year: Mr. Spencer J. Kiper, LA-001 (AEM)

Brewer Awards: Frank G Brewer Memorial Aerospace Awards

Cat I Cadet: Cadet 2nd Lt. Michael I. DeGray, TX-522

CAT II CAP Senior Member: Capt. Mary Ann Fox, NM-083

CAT III: Individual or Organization (non-CAP): None

CAT IV: Lifetime Achievement: None

Cadet of the Year: Cadet Col. Klara G. Olcott, AZ-388

Cadet NCO of the Year: Cadet Chief Master Sgt. Ashley H. Stewart, AZ-112

Cadet Programs Officer of the Year John V. Jack Sorenson Award: Lt. Col. John E. Gender, AR-095

Counter Drug Officer Norm Edwards Award: Lt. Col. Jean M. Fisher, TX-001

Character Development Instructor of the Year: Capt. Douglas W. Plummer, LA-067

Squadron Chaplain of the Year: Chaplain (Maj.) Larry W. Byrd, TX-455

Senior Chaplain of the Year: Chaplain (Lt. Col.) Alexander G Alvarez, CAPID 202475, TX-050

Communicator of the Year: Maj. Richard D. Fitzgerald, OK-001

Drug Demand Reduction Member of the Year: Capt. Amanda A. Followell, TX-179

Director of Finance of the Year Award: Maj. Earl J. Harig, OK-001

Ground Team of the Year Colonel Dion E. DeCamp Award: TX-060

Wing Historian of the Year: None

Incident Staff Member of the Year, Col Edwin W. Lewis, Jr. Award: Lt. Col. David L. Roberts, Jr, OK-001

Inspector General of the Year: Lt. Col. Leonard L. Montgomery, AR-001

Legislative Officer of the Year: Lt. Col. Robert A. BeeleyTX-001

PAO of the Year, Col Robert (Bud) V. Payton Award: Lt. Col. Kathleen E. Beauford, LA-093

Professional Development Officer of the Year: Lt. Col. Eli A. Aaron, TX-098

Property Management Officer of the Year Award: Lt. Col. David Heck, OK-113

Safety Officer of the Year Award: Lt. Col. Douglas P. Weitzel, NM-030

Member of the Year: Lt. Col. Donald M. Ross, OK-001

Squadron of Distinction: Nighthawks 115th Composite SQ, Rogers, AR

The Safety Corner – Slip, Trip and Fall Prevention will Keep Older Adults Safe and Independent

May is Older Americans Month. Is it time to fall-proof your parents' home?

Your parents have been living quite well in their own home for decades now. But if you're thinking it might be time to step in and give their home a fall-prevention assessment, you're right.

In honor of Older Americans Month in May, the National Safety Council offers some statistics about older-adult falls – and some solutions for keeping your loved ones safe.



What are the Risks?

Today, Americans are living longer while staying active and healthy. But adults 65 and older are at risk for falls, which can signal the beginning of the end of that active life – and their independence. Injuries from falls can lead to limited activity, reduced mobility, loss of fitness and a fear of falling, all of which increase risk of additional injury.

Falls also are the leading cause of injury-related death for adults age 65 and older, according to Injury Facts 2016, the statistical report on unintentional injuries created by the National Safety Council. This

is not surprising considering that falls are among the most common causes of traumatic brain injury. About 20,400 people died from falls at home in 2014, and the vast majority of them were over age 65.

According to the Centers for Disease Control and Prevention:

- One in three older adults falls each year
- About 2.5 million nonfatal falls were treated in emergency departments in 2013
- Of those, 734,000 people were admitted to the hospital
- That year, 25,500 older adults died from unintentional falls
- More than 250,000 hip fractures are reported every year, and 95 percent of those are from falls

The Good News

Falls are preventable and aging, itself, does not cause falls.

Some of the underlying causes of older-adult falls, such as muscle weakness, medications that cause dizziness, improper footwear, impaired vision, slick floors, poor lighting, loose rugs, clutter and uneven surfaces, can be improved.

While falls can happen anywhere, they most often occur at home. What can you do to make your home or the home of someone you love safer?

- Remove clutter, small furniture, pet gear, electrical cords, throw rugs and anything else that might cause someone to trip
- Arrange or remove furniture so that there is plenty of room for walking

- Secure carpets to the floor
- Wipe up spills immediately
- Make sure outdoor areas are well-lit and walkways are smooth and free from ice
- Use non-slip adhesive strips on stairs
- Use non-skid mats or appliques in the bath and shower
- Install grab bars in the tub, shower and near the toilet
- Install railings on both sides of stairs
- Provide adequate lighting in every room and stairway
- Place nightlights in kitchen, bath and hallways
- Make often-used items more accessible, like food, clothing, etc., so an older person won't be tempted to use a stool or ladder to get to them
- If necessary to aid in stability, provide personal walking devices, such as a cane or walker.

Right: The practice of Tai Chi is an excellent way to retain agility, flexibility and good muscle tone.

Harvard Medical School touts the value of exercise in preventing falls and even reversing some of the many conditions associated with aging. Tai Chi, in particular, earned a spot in a Harvard Health publication. The ancient Chinese mind-body practice improves balance and muscle tone, and could be "the perfect activity for the rest of your life," according to the article. Even people in wheelchairs can do it.

PubMed.gov also conducted a six-month trial to determine the effect of Tai Chi on older adults. During the trial, inactive older adults who did Tai Chi three times a week decreased the risk of falls by 55 percent compared to a control group.

In addition to regular exercise, older adults should ask a doctor if their medications may be causing dizziness, and make sure to have regular eye exams.

It's Because You Love Them

The role reversal involved with taking care of an aging parent can be challenging; not all parents want their child's advice or help in making their home safe. But as we celebrate Older Americans Month in May, let them know how much you love and value them and want them to be safe. They might even discover that life can be a lot easier with the proper precautions in place.

Reference: National Safety Council.



Lt. Col. John Kruger, CAP
SWR Director of Safety

On Language

The Problem with What

AUSTIN, Texas – What might be the problem with *what*, that has prompted this column? Since we all use *what* at one time or another, we make the assumption that *what* is just what we need at the time that we are compelled to say it or write it. However, not everyone has a clear idea of how *what* works within a sentence, so many use *what* by approximation. The tolerant person who hears it used incorrectly simply keeps the peace by not correcting the other one. Or, worse yet, both speaker and listener have the same wrong idea of how *what* ought to be used, and this is how grammatical and syntactical errors live on and spread.

Let's review the many meanings of *what*, and its usage.

What as an interrogative. This is the most common use of *what*, and everyone has it down pat. We simply use it to ask something. *What is this?* A special case is when we use it as a sort-of interrogative interjection (*What?*) as a way to ask for repetition, show surprise, or ask for an explanation. It may also be used as an exclamation (*What!*) as a way to demonstrate surprise, excitement, annoyance or incredulity.

What as an indicator. This is used to call attention to something that follows. *You know what...*

What at the end of a sentence or question. Now used to suggest or ask for other possibilities. *Are you coming, staying, or what?* Also used as a sentence-finisher in an expectation of agreement: *Is this fun, or what?*

As a substitute. Used chiefly instead of *that*, *which*, or *who*.

This last one is most often used incorrectly, as it can stand for *that which* or *the thing (or things)*. Take, for instance, the two sentences below

1. Tact and empathy are what contribute to group harmony.
2. Tact and empathy are what contributes to group harmony.

Which would you pick? The obvious way out of our doubt is to edit out *are what*, and the sentence gains clarity, "Tact and empathy contribute to group harmony."

However, if you are dead-set on using that specific original wording, we need to parse the sentence and find the subject, identify the verb, and see which are the clauses attached to them. We have two verbs: the first one is *are* and the second is *contribute/contributes*. We also have two nouns that start the sentence and are obvious choices for the subject.

Therefore, the sentence starts with the subject "Tact and empathy" followed by the verb "are." And here comes the trouble: they are followed by *what*. What is this *what* doing? Is it calling attention to what follows, or is it a summary of its antecedent? In this case, that *what* is simply taking over the sentence and now stands for what has been said up to this point.

How can we be sure of what is being said? If we turn our sentence into a question, we get, "What contributes to group harmony?" and this would definitely be preferable to "What contribute to group harmony?" (Wouldn't you think?). The answer, then, is to treat that pesky *what* as a singular and prefer *contributes* over *contribute*.

However, since that capricious *what* is preceded by the verb *are*, many people tend to choose *contribute*, because they misunderstand the syntactical use of *what* in this particular case. Here, if we ask the question, "What contributes to group harmony?" we'll see that now *what* has become the subject, and the previous antecedent "Tact and empathy are" is now clearly a clause that leads up to *what* and modifies it. So yes, the subject is *what*.

Who says the English language is easy? 🇺🇸

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SWR Director of Public Affairs

How the Southwest Region Public Affairs Awards Program Works

Starting with the July, 2015 issue of The Fly-By, Southwest Region Commander Col. Mark Smith has decided to continue the January, 2013 directive of then Southwest Region Commander Col. Frank A. Buethe in that region will recognize contributions to The Fly-By as follows:

1. A SWR **CAP Achievement Award** for article publication on three different issues of The Fly-By. Multiple articles in the same issue will count as one.
2. A SWR **Commander's Commendation Award** for article publication on an additional six different issues. Multiple articles in the same issue will count as one.

Region will issue the certificate and send it to the winner's unit at the first available opportunity. The award certificate will be presented at the first available opportunity.

How to Make Submissions Suitable for Publication

Since The Fly-By is posted on the SWR website, it is an external communication. Therefore, as required by CAPR 190-1, Sec. 7.b.(7), articles must be written in Associated Press Style. If a submission that is not in AP Style is selected for publication, it will be edited to this standard. (NHQ/PA has been using AP Style for all external communications since 2005.)

AP Style is defined in the Associated Press Stylebook (available at www.ap.org). For a brief summary, please see "Associated Press Style in a Nutshell," overleaf.

"Article" is defined as a narrative that:

- Is written in AP Style;
- Answers the questions Who, What, When, Where, and Why, and preferably also How;
- Has one or more quotes from participants, with attribution;
- Has two or more digital photos attached (not embedded in the text), with appropriate cutlines (photo captions). An article submitted without digital photos that is selected for publication will count as a half-credit. For full credit, it must have accompanying photos.

General advice on writing a good article

- Get all the facts right, stick to the facts, and do not use hearsay or express opinion.
- Take good digital photos.
 - Do not use digital zoom, or else your photos will lack good focus and definition;
 - Take "action shots" of people doing something interesting that is material to the article;
 - Make sure everyone is in the correct uniform and you identify all.
 - **Note:** Good photos are essential to add immediacy and flavor to the story.
- Get good quotes.
 - Ask participants for their opinion;
 - Get full grade, name, position title and unit of assignment for each quote.
 - Get the individual's consent to publish the quote as recorded (read it back).
 - **Note:** Getting quotes is how you get to express opinion, and get your readers to share the experience that you are writing about.
- Write in good, idiomatic, unadorned English.
 - Do not "pad" your sentences, such as saying "due to the fact that" when "because" will do;
 - Avoid trite expressions, such as "it goes without saying" – if it does, don't say it;
 - Avoid colloquial expressions;
 - Do not write in acronyms – always define the first instance, such as "Federal Aviation Administration" before you use FAA;
 - No nicknames – unless famous, such as "Ike" for Pres. Dwight E. Eisenhower. 🇺🇸

Associated Press Style in a Nutshell

Below are the most important rules to keep in mind when writing in AP Style

- Write the title in normal English-language capitalization. Never all in caps.
- Add your byline below the article title
- Do not format the text in the article (only exceptions are: bullet comments and numbered paragraphs in a section that details a process or sequence).
- Do not indent the first line of a paragraph.
- Use AP Style rules for punctuation.
- Single space the article. At the end of each paragraph, execute two end-of lines (Enter key).
- Do not introduce artificial paragraphing by hitting the Enter key at the end of each line in your article. Instead, let the text wrap naturally and tap two Enter keys at the end of the paragraph.
- Use only a single space after a period.
- Insert a dateline at the beginning of the article, following AP Style rules.
- Answer the 5Ws: Who, What, Where, When, Why + the honorary W: How. In writing a CAP article, you will always know the 5Ws.
- Write all dates in AP style.
- Do not use postal codes instead of state abbreviations (not OK but Okla., not NM but N.M.) but some states have no abbreviation, such as Texas.
- Write all military grades in AP Style.
- Write the article in the third person singular.
- Express no opinion.
- To express opinion, use one or more quotes of qualified sources – always get the quoted person's permission to include the quote, unless it is a matter of record (printed article or recorded audio-visual). Get the quoted person's grade, name, job title and organization.
- Never self-quote.
- Identify all persons by grade or title, name, job title if material, and organization.
- Never refer to a young person as "kid."
- When a young person is a CAP cadet, never use "boy," "girl" or "child" but identify each one by grade, full name (or last name only – never first name only), and unit of assignment.
- Never use "their" for the possessive of a singular subject, such as, "the cadet took their meal."
- Avoid the abbreviations i.e. and e.g. You may know what each one means, and the Latin words they represent, but most people confuse the two. Be clear. Write in English and leave Latin and non-English to scholars.
- Refer to CAP members by grade, name, duty position and unit of assignment. Never by first name.
- On second or subsequent references, use only the last name, except when there are two persons with the same last name, in which case the use of both first and last name is preferred (never just the first names).
- In the case of CAP or military commanders or higher ranking senior members, on second reference use the grade and last name.
- Do not use Lt. as a grade. Lt. is a mode of address. The correct grade may be 2nd Lt. or 1st Lt., but never Lt. The Navy is the only service that has the grade of Lt.
- Do not use exclamation marks, as doing so expresses opinion.
- Use simple declarative sentences.
- Avoid the passive voice.
- Remember the good rules of English grammar and syntax, and follow them.
- **For best results**, buy the latest copy of the Associated Press Stylebook, available at a modest cost at www.ap.org – read it, study it, know it, and use it. 📖